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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/972,033		10/04/2001	Eric M. Prophet	263/232	2874
34263	7590	03/05/2003			
O'MELVE		··	EXAMINER		
114 PACIFI IRVINE, CA		E 100	DONOVAN, LINCOLN D		
				ART UNIT	PAPER NUMBER
				2832	
				DATE MAILED: 03/05/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/972,033

Applicant(s)

Prophet

Examiner

Lincoln Donovan

Art Unit **2832**



	The MAILING DATE of this communication appears	on the cover sh	reet with	n the correspondence address			
Period	for Reply						
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE _	_3	MONTH(S) FROM			
THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the							
mailing	g date of this communication.		, , ,	,			
	period for reply specified above is less than thirty (30) days, a reply within tl period for reply is specified above, the maximum statutory period will apply a	•	-	· · · · · · · · · · · · · · · · · · ·			
	e to reply within the set or extended period for reply will, by statute, cause the eply received by the Office later than three months after the mailing date of t						
earned	d patent term adjustment. See 37 CFR 1.704(b).			, , ,			
Status	December to a communication (a) filled as						
1) 🗆	Responsive to communication(s) filed on			· ·			
2a) ∐	This action is FINAL . 2b) X This act						
3) □	Since this application is in condition for allowance eclosed in accordance with the practice under Ex pa						
Disposi	tion of Claims						
4) 💢	Claim(s) <u>1-28</u>			is/are pending in the application.			
2	4a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) <u>1-28</u>			is/are rejected.			
7) 🗌	Claim(s)			is/are objected to.			
8) 🗌	Claims	are	subjec	t to restriction and/or election requirement.			
Applica	ation Papers						
9) 🗆	The specification is objected to by the Examiner.						
10) 💢	The drawing(s) filed on Oct 4, 2001 is/are	a) 🗌 accepte	ed or b)	□ objected to by the Examiner.			
	Applicant may not request that any objection to the d						
11)	The proposed drawing correction filed on	-					
	If approved, corrected drawings are required in reply to			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
12)	The oath or declaration is objected to by the Exami	iner.					
Priority	under 35 U.S.C. §§ 119 and 120						
13)	3) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) [☐ All b) ☐ Some* c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. \square Copies of the certified copies of the priority de	ocuments have	e been re	eceived in this National Stage			
*S	application from the International Burea ee the attached detailed Office action for a list of the						
14)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	.C. § 119(e).			
a) [\square The translation of the foreign language provisiona	al application ha	as been	received.			
15)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	.C. §§ 120 and/or 121.			
Attachm	ent(s)						
	tice of References Cited (PTO-892)	4) Interview Sur	mmary (PT	O-413) Paper No(s)			
	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)					
3) X Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s). 8 & 10	6) Other:					

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature

of the invention specified in the claims. Therefore, the first number of anchor legs having a greater

strength and length than the second number of anchor legs, the anchor leg orientation along a first

direction having a length that is at least twice the length of a second number of anchor legs and each

anchor comprising a plurality of anchor legs with each anchor leg being attached at one end to the

substrate and at the other end to the base must be shown or the feature(s) canceled from the claim(s).

No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office

action to avoid abandonment of the application. The objection to the drawings will not be held in

abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner

in which the invention was made.

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Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman [Paper 3.

entitled "An Investigation of MEMS Anchor Design for Optimal Stiffness and Damping"].

Sherman discloses a MEMS anchor system [Appendix I] having a base portion with a width

greater than a beam mounted thereon including at least two rows of anchors with legs for supporting

the base.

Sherman disclose the instant claimed invention except for: the base being supported on a

substrate.

It would have been obvious to one having ordinary skill in the art at the time the invention was

made to use a substrate as a support portion for the base to be anchored thereto for the purpose of

enabling the switch to be used within a circuit.

Sherman discloses various anchor designs [pages 20-22] having differing strengths and sizes.

The particular strength, size and number of the anchors used on the base portion would have been

an obvious design consideration based on the expected number of cycles of the switch and the

operating environment.

Sherman discloses the anchor system design securing a cantilever.

Claims 19-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman in 4.

view of Sun.

Sherman disclose the instant claimed invention except for: a plurality of base plates.

Sun discloses a MEMS switch assembly having a plurality of base plates [24].

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It would have been obvious to one having ordinary skill in the art at the time the invention was made that the anchoring system of Sherman could have been used on a plurality of base plates in order to provide alternate switching systems.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Loo et al. [US 6,046,659] and Lin et al. [US 6,495,893].
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Lincoln Donovan whose telephone number is (703) 308-3111.

The fax number for this Group is (703)-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1782.

LDD

March 1, 2003